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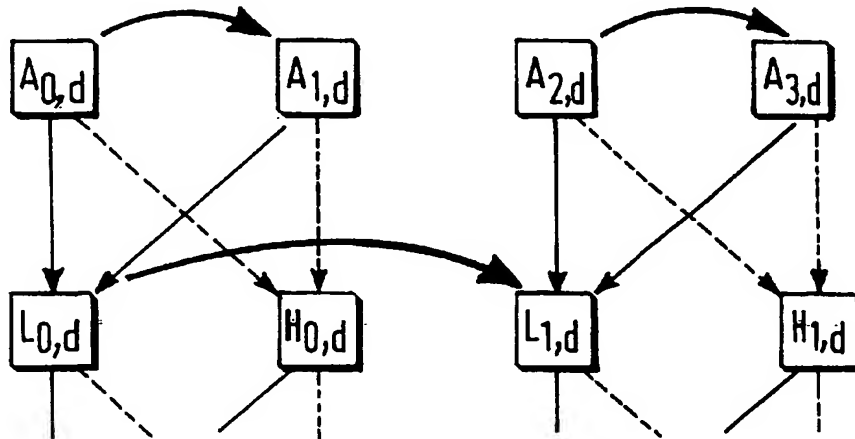
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- (72) Inventors; and (75) Inventors/Applicants (*for US only*): BOURGE, Arnaud [FR/NL]; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). BARRAU, Eric [FR/NL]; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
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(54) Title: DRIFT-FREE VIDEO ENCODING AND DECODING METHOD, AND CORRESPONDING DEVICES



(57) Abstract: The invention relates to a video encoding method for the compression of a video sequence, comprising the steps of generating from the original video sequence, by means of a wavelet decomposition, a low resolution sequence, performing on said low resolution sequence a low resolution decomposition, by means of a motion compensated spatio-temporal analysis, generating from said low resolution decomposition a full resolution sequence, by means of an anchoring of the high frequency spatial subbands resulting from the wavelet decomposition to said low resolution decomposition and coding said full resolution sequence and the motion vectors generated during the motion compensated spatio-temporal analysis. The invention also relates to a corresponding decoding method, and to corresponding encoding and decoding devices.

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— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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INTERNATIONAL SEARCH REPORT

PCT/IB 03/00156

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04N7/26								
According to International Patent Classification (IPC) or to both national classification and IPC								
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04N								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal								
C. DOCUMENTS CONSIDERED TO BE RELEVANT <table border="1"> <thead> <tr> <th>Category *</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td> BOTTREAU V ET AL: "A FULLY SCALABLE 3D SUBBAND VIDEO CODEC" PROCEEDINGS 2001 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING. ICIP 2001. THESSALONIKI, GREECE, OCT. 7 - 10, 2001, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, NEW YORK, NY: IEEE, US, vol. 2 OF 3. CONF. 8, 7 October 2001 (2001-10-07), pages 1017-1020, XP001045747 ISBN: 0-7803-6725-1 cited in the application the whole document <div style="text-align: center;">--- -/--</div> </td> <td>1-6</td> </tr> </tbody> </table>			Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	BOTTREAU V ET AL: "A FULLY SCALABLE 3D SUBBAND VIDEO CODEC" PROCEEDINGS 2001 INTERNATIONAL CONFERENCE ON IMAGE PROCESSING. ICIP 2001. THESSALONIKI, GREECE, OCT. 7 - 10, 2001, INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, NEW YORK, NY: IEEE, US, vol. 2 OF 3. CONF. 8, 7 October 2001 (2001-10-07), pages 1017-1020, XP001045747 ISBN: 0-7803-6725-1 cited in the application the whole document <div style="text-align: center;">--- -/--</div>	1-6
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<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.								
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A document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) *O* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *S* document member of the same patent family							
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Schoeyer, M						

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WU F ET AL: "DCT-prediction based progressive fine granularity scalable coding" PROCEEDINGS. INTERNATIONAL CONFERENCE ON IMAGE PROCESSING, XX, XX, 10 September 2000 (2000-09-10), pages 556-559, XP002165186 the whole document	1-6
A	US 2002/006164 A1 (FELTS BORIS) 17 January 2002 (2002-01-17) abstract page 1, paragraph 1 -page 3, paragraph 46	1-6

INTERNATIONAL SEARCH REPORT

patent family members

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US 2002006164 A1	17-01-2002	CN 1381142 T	20-11-2002
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